



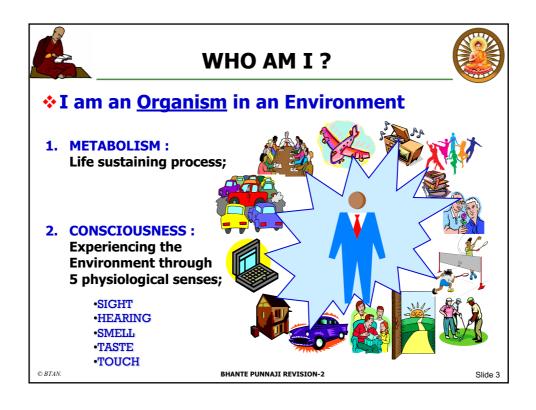
Synopsis

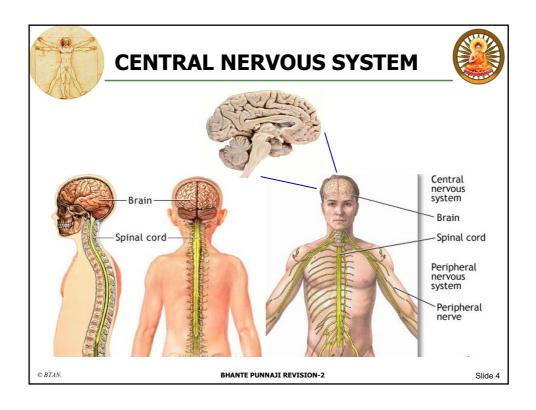


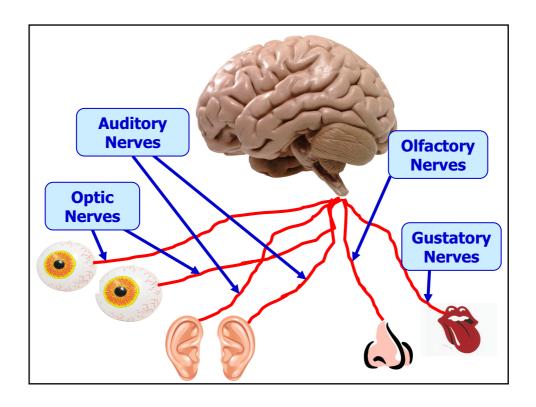
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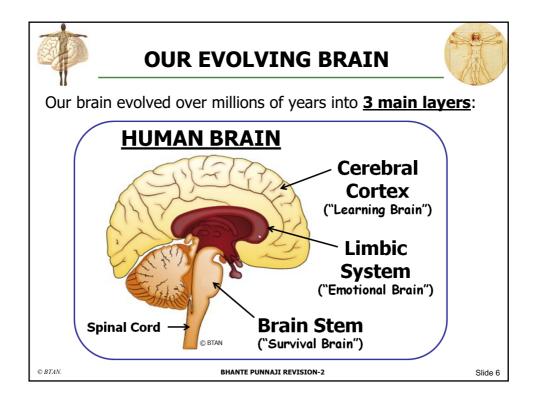
- 策 *Saññā* (sensation) & *Vedanā* (feeling);
- 策 Sankhāra (mental construction);
- 策 Viññāna (perception);
- # Five Constituents of the Process of Perception (*Pañca-khandha*);
- # Personalizing the subjective experience (upādāna) lead to the notion of a self-centered existence.

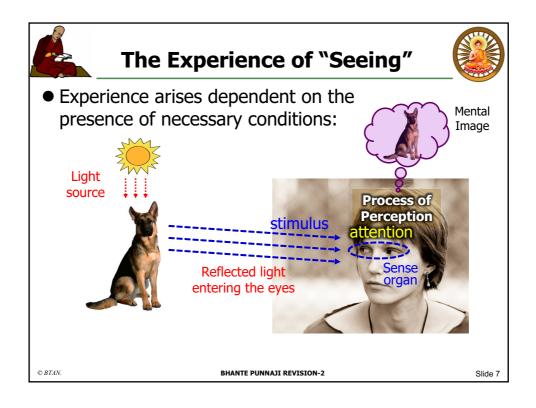
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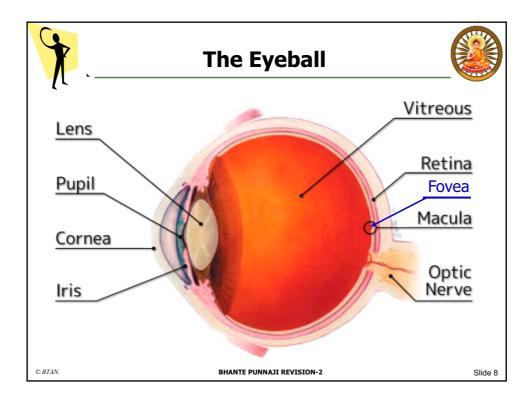


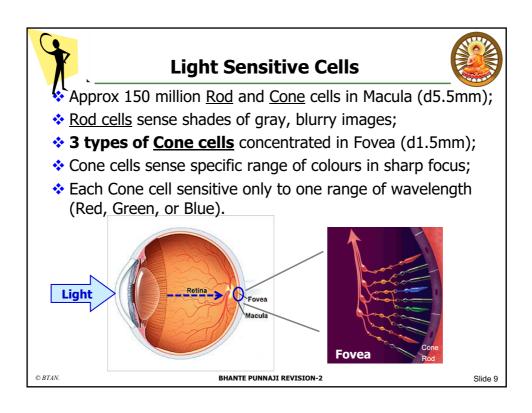


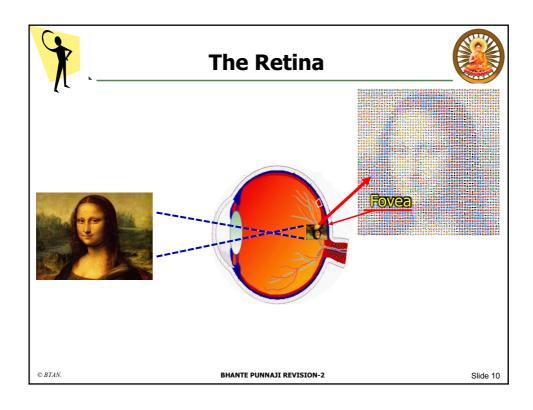


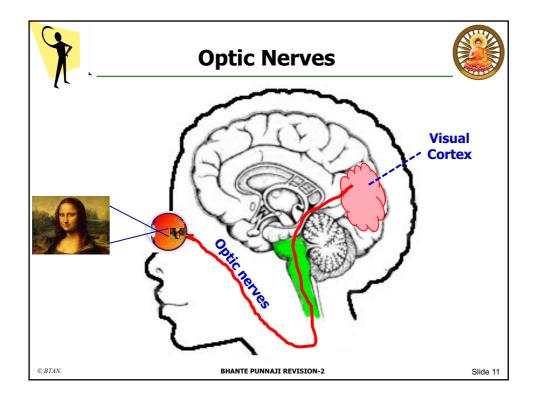












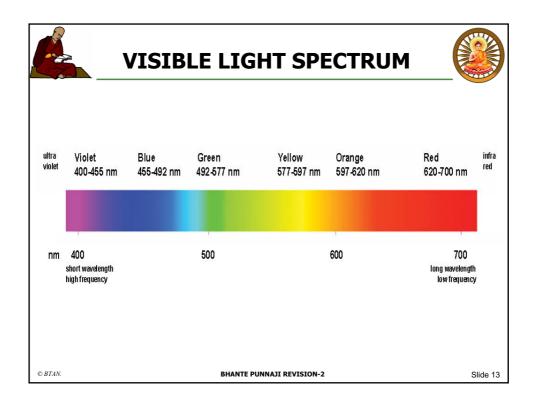


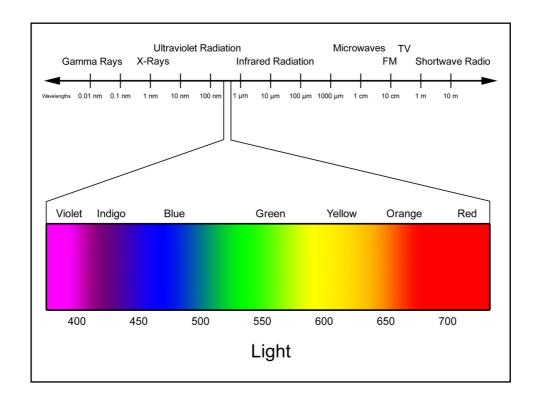
Sensation of Colours



- The simple act of seeing a colour triggers a **spontaneous reaction** in the central nervous system this is automatic;
- It isn't caused by any <u>association</u>, but <u>by the wavelength</u> of the colour;
- Objects reflect light at different wavelengths, and our brain interprets these wavelengths as different colours;
- Blue (the shortest wavelength) through green and yellow, to red (the longest wavelength);
- The long wavelengths (red & orange) are said to <u>arouse</u> <u>the nervous system</u> - heartrate and blood pressure increase.
- The short wavelengths (blue & violet) are meant to **relax the nervous system**.

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Sensa

"SENSATION" - Saññā



- The simple act of seeing a colour triggers a spontaneous **reaction** in the central nervous system - this is automatic;
- It isn't caused by any <u>association</u>, but <u>by the wavelength</u> of

Unpleasant "feelings" - Vedanā nt wavelengths, and our brain interprets these wavelengths as different colours;

- Blue (the shortest wavelengthe Pleasant "feelings" Vedanā to red (the longest waveleng
- The Idng wavelengths (red & orange colours) are said to arouse (aggitate) the nervous system - heartrate and blood pressure increase.
- The short wavelengths (blue, green & violet colours) are meant to relax the nervous system.

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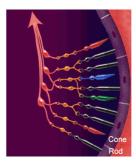
LIGHT SENSATION



- Rod cell senses light of any wavelength in visible spectrum;
- Cone cell senses light of wavelength of its type (R, G, B);
- Light stimulation of Rod or Cone cell causes a sensation;
- Every stimulated cell sends the <u>sensation</u> to the brain;
- ❖ Sensation = Saññā;

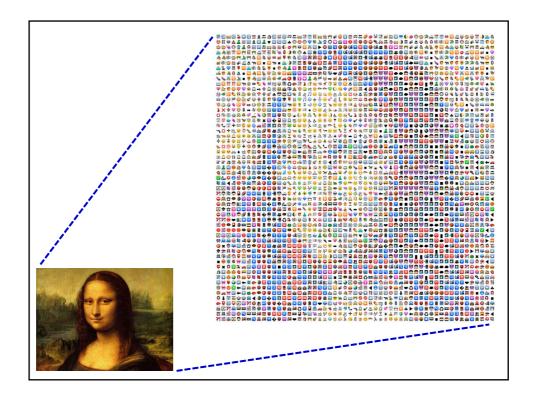
❖ Feeling = Vedanā.

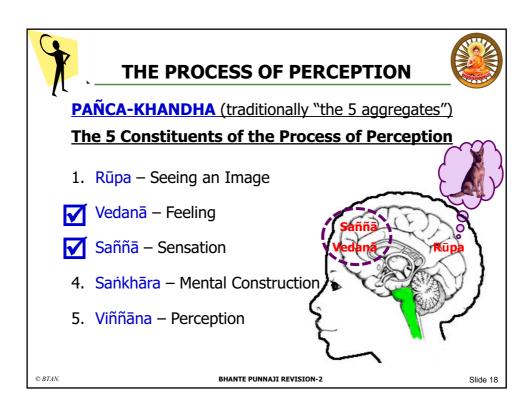




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Slide 16







SENSE STIMULATION



Environmental activities stimulate the <u>sense organs</u>:

- SIGHT: Reflected light stimulates cone and rod cells in the retina;
- > HEARING: Air vibration stimulates the ear-drum;
- > TOUCH: Pressure, temperature, vibration, chemicals stimulate tactile sensory receptors under the skin;
- SMELL: Odorant molecules bind to receptor cells in the olfactory bulb;
- > <u>TASTE</u>: Flavour molecules react chemically with gustatory sense receptors in the taste buds;
- ☐ Stimulations trigger <u>sensation</u> ("saññā") and arouse <u>feeling</u> ("vedanā") in nervous system.

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SENSATION ("saññā")



- ❖Stimulation of sense organ triggers nerve impulses or <u>sensation</u> ("saññā") in the nervous system carried to the brain:
 - SIGHT: sensation refers to the sensing of wavelength ("colour") and intensity ("brightness") of the light stimuli;
 - HEARING: sensation refers to the sensing of air vibration <u>frequency</u> ("pitch") and <u>amplitude</u> ("loudness");
 - > ...etc

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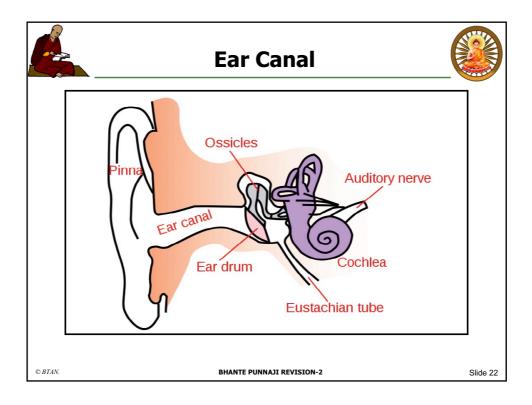


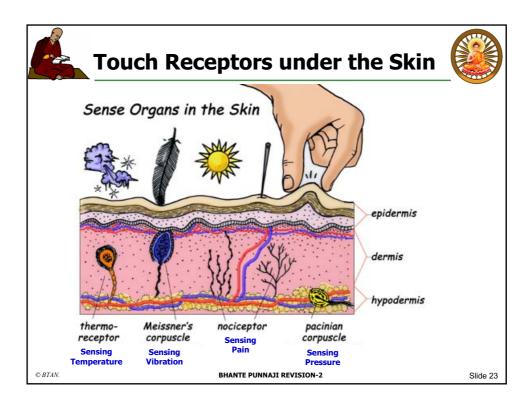
FEELING ("vedanā")

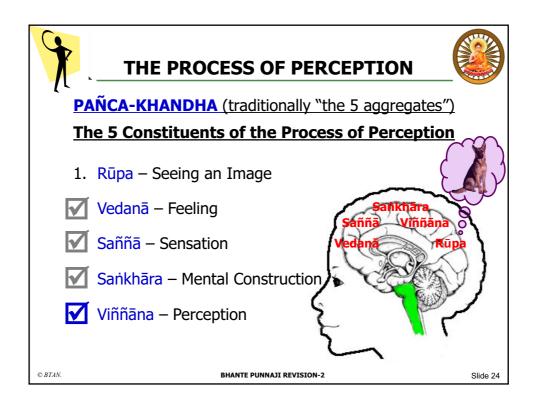


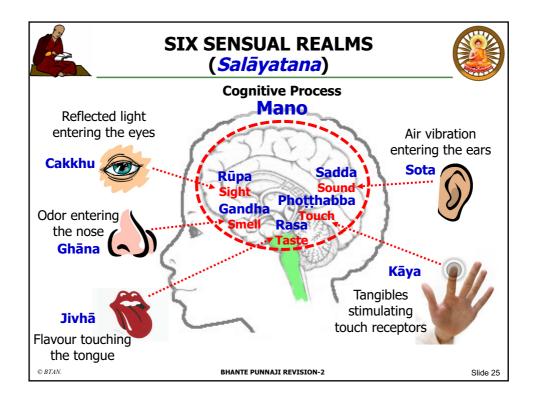
- Sensation ("saññā") invariably arouses a feeling ("vedanā") in the nervous system (inseparable):
 - SIGHT: feeling refers to how the nervous system is irritated by long wavelengths (red, orange, yellow) and high intensity (bright) light, and soothed by short wavelengths (blue, green) and low intensity (dim) light;
 - <u>HEARING:</u> feeling refers how the nervous system is irritated by high frequency (pitch) and large amplitude (loud) sound waves, and soothed by low frequency and soft mellow sound waves.

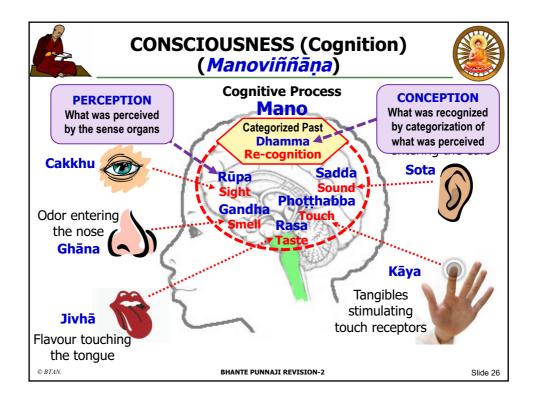
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MIND AS AN ACTIVITY

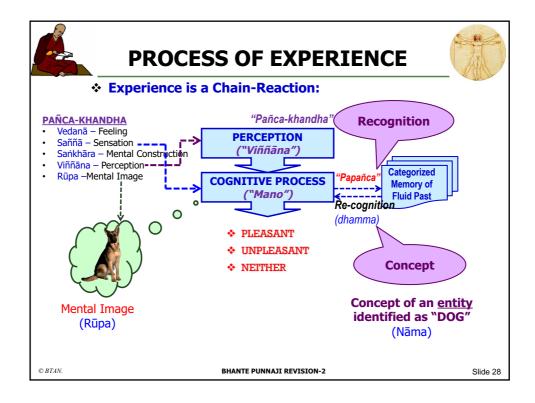


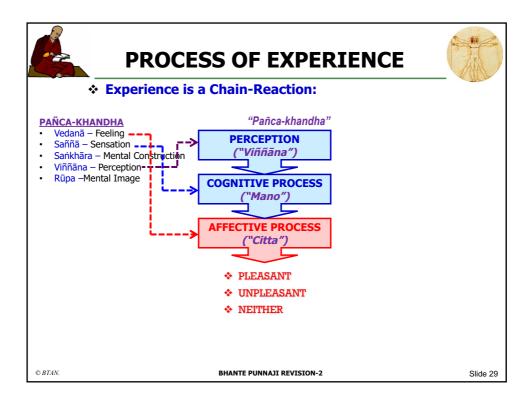
THREE PARTS OF MENTAL EXPERIENCES:

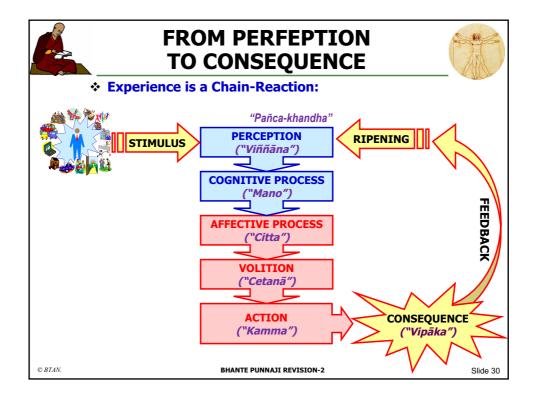
- Viññāna : Process of Perception ("perception")
 - > what was perceive through the sense organs;
- Mano : Cognitive Process ("cognition & conception")
 - categorized interpretation of perception giving meaning ("nāma") to what was perceived ("rūpa");
- Citta: Affective Process ("mood / temperament")
 - emotional reaction ("tanhā") from emotional excitement to pleasant & unpleasant feelings ("vedanā") leads to mood or temperament (emotional state of mind);
 - > <u>personalizing the experience</u> leading to the notion of a self-centered existence.

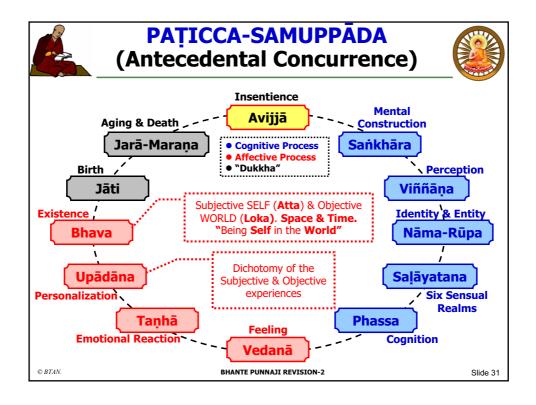
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Slide 27











MIND AS AN ACTIVITY



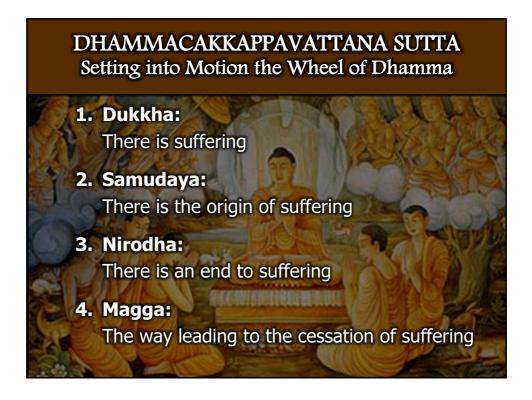
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Slide 32





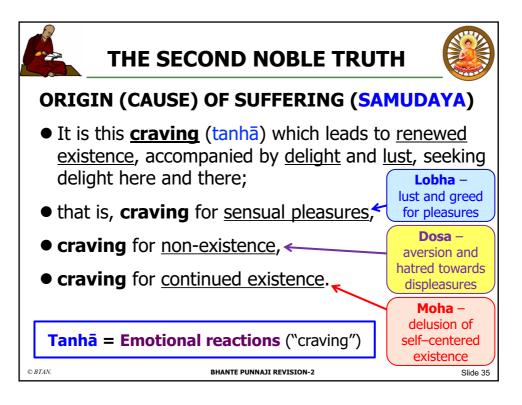
THE FIRST NOBLE TRUTH



THERE IS SUFFERING (DUKKHA)

- This is the noble truth of suffering: (1) birth is suffering, (2) aging is suffering, (3) illness is suffering, (4) death is suffering;
- (5) <u>separation</u> from what is **pleasing** is suffering;
- (6) <u>union</u> with what is **displeasing** is suffering;
- (7) not to get what one wants is suffering;
- in brief, (8) the **five aggregates subject to clinging** (*pañcupādānakkhandhā*) is suffering.

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The 3 Unwholesome Roots



(Akusala Mula)

Emotional reactions (tanha) are of three types:

- Pleasant sensations:
 - ▶ Lobha: Lust & greed for pleasures (kāma-tanhā – craving for sensual pleasures)
- Unpleasant sensations:
 - Dosa: Aversion & hatred towards displeasures
 (vibhava-tanhā craving for non-existence)
- Neutral sensations:
 - Moha: Delusion of self-centered existence
 (bhava-tanhā craving for continued existence)

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MAX PLANCK INSTITUTE FOR BRAIN RESEARCH



- The Brain is a highly distributed, dynamical system that lacks a singular convergence center;
- There is no co-ordinator;
- There is no observer;
- There is no seat of the "self".



Dr Wolf Singer, Director Max Planck Inst. For Brain Research

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WHEN SELF COMES TO MIND



- Mind continuous flow of mental images;
- 2. A conscious mind is a mind with a "self" in it;
- 3. The self introduces a subjective perspective in the mind;
- 4. We are only fully conscious when self comes to mind;
- 5. We need to know:
 - i. How minds are put together in the brain;
- Antonio Damasio
- ii. How selves are constructed;
- 6. We generate brain maps of the body's interior, and uses them as a reference point for all other maps of the world;



7. The body and the experience of the body becomes the reference point for the self.

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Personalizing Bodily Sensations



- ❖ Sensation (saññā) of brushing on the hand;
- Feeling the pleasant sensation (vedanā) and seeing fake hand being brushed;
- Associating how we feel with what we see (multi-modality association);
- Personalizing (upādāna) the fake hand based on this association;
- "This (fake) hand is mine!" (self-centered)

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